



Missouri
Department of
Natural Resources

City of Independence
Power Plant Name: Blue Valley
Electric Generation and Emissions in 2011

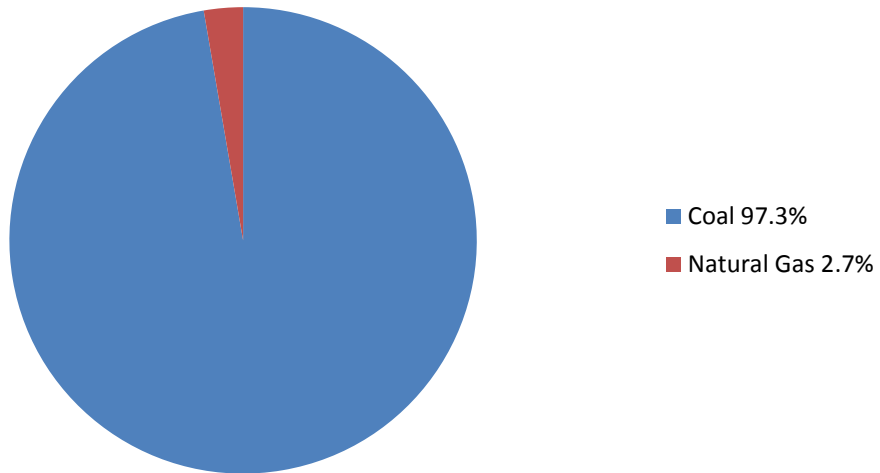
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	2,106,188	96.9%	96.9%	133,236	97.3%	97.3%
Natural Gas	67,727	3.1%	3.1%	3,693	2.7%	2.7%
Petroleum						
Nuclear						
Other						
Non-renewable total	2,173,915	100.0%	100.0%	136,929	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	2,173,915		100.0%	136,929		100.0%

Fuel Type	Physical Units	Number of Units
Anthracite Coal and Bituminous Coal	Short Tons	93,839
Natural Gas	MCf	67,487



Net Generation by Fuel Type, 2011 for Blue Valley





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Power Plant Nameplate information for Blue Valley

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Blue Valley</i>		<i>All Operating Generators</i>			<i>704.0</i>
Blue Valley	Jackson	GT1	Combustion (Gas) Turbine (includes jet engine design)	Out of service	244.0
Blue Valley	Jackson	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	100.0
Blue Valley	Jackson	3	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	260.0
Blue Valley	Jackson	ST1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	100.0



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Emissions from Electricity Generated in 2011: Blue Valley

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Blue Valley	7,650,161	883,210	102,452	14,889

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Blue Valley	10,896	0.0015	0.0015

Identified Flue Gas Desulfurization (FGD) controls installed on Blue Valley power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Blue Valley power plant

Plant	Control Equipment
Blue Valley	Electrostatic precipitator, cold side, without flue gas conditioning



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>